

العد محدم Cof Rof WPVI(TV) A.M.S.L. SHADOW, AREA

EXHIBIT VB-8

RADIATION LEVEL

BEACON BROADCASTING CORPORATION APPLICATION FOR A NEW NON COMMERCIAL FM STATION ALLENTOWN, PENNSYLVANIA

Channel 207A

0.15 kW(Max) DA

245 Meters

The following calculations are performed in order to determine, whether the proposed FM station has significant environmental effect.

Computations

FM Facilities

The calculations to determine power density (mW/cm^2) and power density level of all FM facilities are computed by using the following equation.

Power density in mW/cm² (S) = (0.64) (1.64) (Total ERP in Watts) (1000 milliwatts 1 watt) π (Center of Radiation in cm)²

For the proposed FM facility, the total ERP is 0.30 kW and the center of radiation is 113 m. Therefore, power density for the proposed FM facility is 0.0008 mW/cm 2 . For the existing WFMZ-FM facility, the total ERP is 34 kW and the center of radiation is 132.6 m. Therefore power density for WFMZ-FM facility is 0.065 mW/cm 2 . Total power density of all FM facilities is 0.0658 mW/cm 2 .

TV Facilities

The calculations to determine power density (mW/cm^2) and power density level of TV facilities are computed by using the following equation.

Power density in mW/cm² (S) = (2.56) (1.64) 100 (F²) (0.4 VERP + AERP) 4 TT (center of radiation in meters)²

For WPTT(TV) Station, VERP is 2147.8 kW, AERP is 214.8 kW, F is 0.1, and center of radiation is 197.4 meters. Therefore, power density for WPTT (TV) is $0.0092 \, \text{mW/cm}^2$.

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Beacon Broadcasting Corporation
Allentown, Pennsylvania
Page Three

Conclusion

The computation of the power density for the proposed FM station was performed in accordance with OST Bulletin No. 65, Evaluating Compliance with FCC specified Guidelines for Human Exposure to Radiofrequency Radiation. The total power density of all FM facilities is $0.0658~\text{mW/cm}^2$. The power density of WFMZ(TV) is $0.0092~\text{mW/cm}^2$. The total power density for the TV and all FM facilities is $0.075~\text{mW/cm}^2$. Since this value is less than 1.0, the proposed facility is in compliance with OST Bulletin No. 65 and the ANSI standards.

		•	FOR COMMISS	ON USE ONLY		
			File No.		·	
Section	V-B - FM BROADCAST EN	SINEERING DATA	ASB Referral [ASB Referral Date		
\			Referred by			
Name of Applic	cant					
BEACON BROA	ADCASTING CORPORATION	· · · · · · · · · · · · · · · · · · ·		•		
Call letters (if	issvedi	Is this application I	being filed in response	a to a window?	Yes X No	
EW						
urnose of An	plication: Icheck appropriate box	If Yes, specify clo	sing date:	N/A		
			.			
X Constr	uct a new (main) facility	<u>L</u>	Construct a new au	xiliary facility		
Modify	existing construction permit for	main facility	Modify existing con	struction permit for	r auxiliary facility	
Modify	licensed main facility		Modify licensed aux	iliary facility		
f purpose is to	o modify, indicate below the nati	ure of change(s) and sp	pecify the file number(s) of the authorizat	ions affected.	
Antenn	a supporting-structure height		Effective radiated p	ower	•	
Antenn	a height above average terrain		Frequency			
Antenn	a location		Class			
Main S	itudio location	<u></u>	Other (Summarize br	ief luž		
			-	•		
	·	•			•	
File Number	(s)					
1. Allocation:					,	
hannel No.	Principal co	mmunity to be served:]	Class Icheck on	ly one box below?	
_	City	County	State	X A E	31 🔲 B 🔲	
207	Allentown	Lehigh	PA	□ c2 □ c	:1	
				·		
2. Exact location			•			
	ddress, city, county and state. If					
Road.	ide of East Rock Road. Lehigh County, PA. (W		Intersection bet	ween 3rd Lane	and East Roc	
	ical coordinates (to nearest seco		nent of an AM array	specify coordinates	of center of area	
	s, specify tower location. Specify					
	ngitude will be presumed.	,	,		· · · · · · · · · · · · · · · · · · ·	
Latitude	40 33	54 Long	gitude 75	26	26	
3. Is the suppo application(s)	orting structure the same as that)?	of another station(s) or	proposed in another	pending	X Yes No	
If Yes, give	call letter(s) or file number(s) o		MZ TV, Licensee censee Ch. 264	Ch. 69 and WF	MZ FM	
	involves a change in height of a purtenances, and lighting, if any.			bove ground level i	ncluding antenna,	
an omer ap	portendices, and lighting, it any.	No	changes to the	WFMZ-TV exist	ing tower	
				IT CALDE	0	

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 487.0 meter (b) Height of radiation center: (to the nearest seter) H = Horizontal; V = Vertical (1) above ground 113.0 meter: (2) above mean sea level [(aX1) + (bX1)] 396.4 meter: (3) above average terrain 244.8 meter: Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator. Effective Radiated Power: (a) ERP in the horizontal plane 0.150 kw (H*) 0.143 kw (V	Latitude	0	•		Longitude		•	i Pirangana. Majangan	
List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the neare runway. Landing Area Distance (km) Bearing (degrees True)	If Yes, give date	and office where			h as an Exhib	it a copy of f	FAA	Exhib	it No.
Landing Area Distance (km) Bearing (degrees True) (a) Allentown Queen City 3.20 279° (b) (a) Elevation: Its the nearest seter) (1) of site above mean sea level; (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 487.0 meter appurtenances; and lighting, if any); and (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 487.0 meter appurtenances; and lighting (if any); and (1) above ground 113.0 meter 113.0 meter 113.0 meter 123.0 meter 124.8 meter 125.0 meter	Date N/	'A	Office wher	e filed		N/A			,
Landing Area Distance (km) Bearing (degrees True) (a) Allentown Queen City 3.20 279° (b) (a) Elevation: (to the nearest seter) (1) of site above mean sea level; 283.4 meter appurtenances, and lighting, if any); and (3) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and (3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)] 487.0 meter appurtenances, and lighting, if any); and (b) Height of radiation center: (to the nearest seter) H = Horizontal; V = Vertical (1) above ground 113.0 meter 113.0 meter 113.0 meter 113.0 meter 113.0 meter 123.0 meter 124.8 meter 1244.8 meter 1244	-	eas within 8 km	of antenna site.	Specify dist	ance and bear	ing from stru	cture to near	est point of t	he nearest
(b) [a) Elevations (to the nearest seter) (1) of site above mean sea level; (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] (b) Height of radiation center: (to the nearest seter) H = Horizontal; V = Vertical (1) above ground 113.0 meter. (2) above mean sea level [(aX1) + (bX1)] 396.4 meter. (3) above average terrain 244.8 meter. 245.0 meter. 244.8 meter. 245.0 meter. 246.8 meter. 246.9 meter. 246.9 meter. 246.9 meter. 246.9 meter. 246.8 meter.	•	anding Area	gar en	Dis	tance (km)	·	Bear	ing (degrees T	rue)
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(a) ERP in the horizontal plane (b) Is beam tilt proposed? If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field. [Exhibit No.] N/A	in Question 7 al	oove, except item	7(b)(3). If moun	ted on an	AM directional-	-array element		3	ľ
If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical Exhibit No. elevational plot of radiated field.			• .			0.150	_ kw (H#) _	0.143	_ kw (V#)
elevational plot of radiated field.	(b) is beam tilt p	proposed?						v	es X
								1	

i .	10.	Is a directional antenna proposed?	X Yes No
		If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field.	Exhibit No. VB-2
	11.	Will the main studio be located within the 70 dBu or 3.16 mV/m contour?	X Yes No
		If No, attach as an Exhibit justification pursuant to 47 CF.R. Section 73.1125.	Exhibit No. N/A
	12.	Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens bend or emeteur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?	X Yes No
		If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 E.F.R. Sections 73.315(b), 73.316(d) and 73.318.)	Exhibit No. VB-3
	13.	Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply	Exhibit No. VB-4A &
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art or equivalen		as an Exhibit a map (Sectional Aeronautical Bly, and with latitude and longitude markings	N/A
the proposed a	auxiliary 1 mV/m contour; and		
		nich the applied-for facility will be auxiliary. ee 47 C.F.R. Section 73.1675. (File	
errain and cover	age data Ito be calculated in accordance wit	h 47 C.F.R. Section 73.3131.	
ource of terrain	n data: Icheck only one box below?		
Linearly inte	rpolated 30-second database	7.5 minute topographic map	
(Source:			
Other Ibrie	fly summerized Data taken from WFM2 and verified by usin	Z-TV station records on file with a 7½ minute topographic map.	h the FCC
	Height of radiation center above	Predicted Distances	
Radial bearing	average elevation of radial from 3 to 16 km	to the 1 mV/m contour	
(degrees True)	(meters)	(kilometers)	
0	269.3	18.0	٠
45	273.9	18,9	
90	253.2	16.9	
135	230.3	11.9	
180	197.1	12.8	
225	177.3	15.2	
270	273.0	18.1	
315	284.6	19.3	
	Allocation (See Subpert C of 47		
the proposed e United States		99 miles) of the common border between	Yes [

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 5)

20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada?	Yes X No
If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947.	Exhibit No. N/A
21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following: See Engineering Statement — Table I, Table IV	Exhibit No. VB-6
 (a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths. (b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused. (c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received. (d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference. (e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities. (f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof. (g) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified. (h) The name of the map(s) used in the Exhibit(s). 	
22. With regard to any stations separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as an Exhibit information required in 1/ Isoparation requirements involving intermediate frequency (i.f.) interference).	Exhibit No. N/A
3.(a) Is the proposed operation on Channel 218, 219, or 220?	Yes X No
(b) If the answer to (a) is yes, does the proposed operation satisfy the requirements of 47 CF.R. Section 73.207?	Yes No N/.
(c) If the answer to (b) is yes, attach as an Exhibit information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222 and 223.	Exhibit No. N/A
(d) If the answer to (b) is no, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.	Exhibit No. N/A

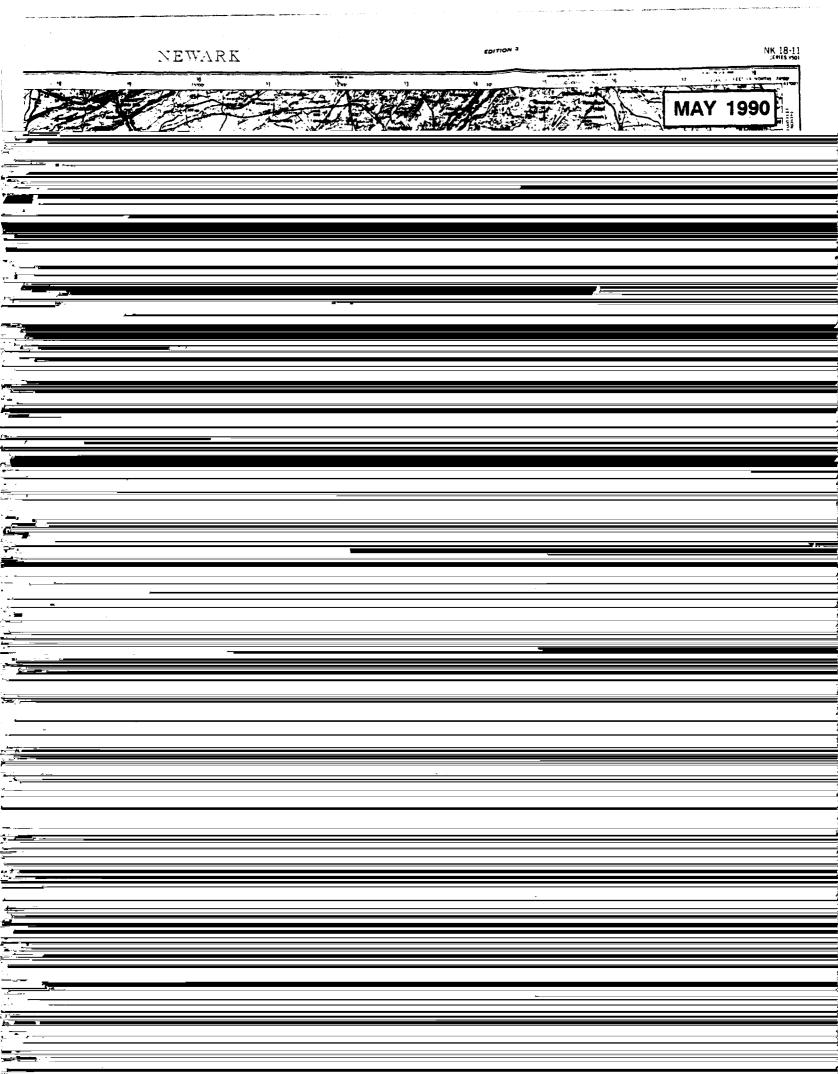
1/ A showing that the proposed operation meets the minimum distance separation requirements. Include existing stations, proposed stations, and cities which appear in the Table of Allotments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 6)

	(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:	Exhibit No. N/A
	 (1) Protected and interfering contours, in all directions (360°), for the proposed operation. (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location. 	
	(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.	
	(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.	
	(5) The official title(s) of the map(s) used in the exhibits(s).	
_	24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?	X Yes No
	See Engineering Statement — Table II & Table V If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.	Exhibit No. VB-7A thru VB-7H
	25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?	Yes X No
	If Yes, attach as an Exhibit information required in 1/. (Except for Class D (secondary) proposals.)	Exhibit No. N/A
	26. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)	
_	Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?	Yes X No
	If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.	Exhibit No. N/A
	If No, explain briefly why not. The proposed site is categorically excluded from environmental processing under the provisions of Section 1.1306 of the FCC Rules and Regulations. CERTIFICATION	
	See Exhibit VB-8	

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed)	Relationship to Applicant (e.g., Consulting Engineer)
LALIN FONSEKA	Telecommunications Consultant
Signature	Address (Include 21P Code) LECHMAN & JOHNSON, INC. 9500 Annapolis Road, Suite C-1 Lanham, MD 20706
Date	Telephone No. (Include Area Code)
May 30, 1990	(301) 577-0800



Area: 864 sq. km.
Pop. : 356,471 persons

Site Coordinates

N. Lat. 40°33'54"

